## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

1-3 (Cancelled Herein)

- 4. (Currently Amended) The material composition of claim 2 having specific formula (Ba0.95Fe0.05)TiO3, wherein said saturation magnetization about 0.10:B/mol Fe at 300K, and the coercive fields about 16Oe at 300K. A ferromagnetic perovskite oxide having the formula (Ba $_{0.95}$ Fe $_{0.05}$ )TiO $_3$ , wherein the oxide has a saturation magnetization of about 0.10  $\mu_B$ /mol Fe at 300K, and a coercive field of about 16 Oe at 300K.
- 5. (Currently Amended) The material composition of claim 2 having specific formula (Ca0.95Fe0.05)TiO3, wherein said saturation magnetization about 0.11:B/mol Fe at 300K, and the coercive fields about 12Oe at 300K. A ferromagnetic perovskite oxide having the formula (Ca $_{0.95}$ Fe $_{0.05}$ )TiO $_3$ , wherein the oxide has a saturation magnetization of about 0.11  $\mu_B$ /mol Fe at 300K, and a coercive field of about 12 Oe at 300K.
- 6. (Currently Amended) The material composition of claim 2 having specific formula (Ba0.95Fe0.05)ZrO3, wherein said saturation magnetization about 0.11:B/mol Fe at 300K, and the coercive fields about 25Oe at 300K. A ferromagnetic perovskite oxide having the formula (Ba<sub>0.95</sub>Fe<sub>0.05</sub>)ZrO<sub>3</sub>, wherein the oxide has a

saturation magnetization of about 0.11  $\mu_B/mol$  Fe at 300K, and a coercive field of about 25 Oe at 300K.

- 7. (Currently Amended) The material composition of claim 2 having specific formula (Ca0.95Fe0.05)ZrO3, wherein said saturation magnetization about 0.12:B/mol Fe at 300K, and the coercive fields about 4.5Oe at 300K. Δ ferromagnetic perovskite oxide having the formula (Ca<sub>0.95</sub>Fe<sub>0.05</sub>)ZrO<sub>3</sub>, wherein the oxide has a saturation magnetization of about 0.12 μ<sub>B</sub>/mol Fe at 300K, and a coercive field of about 4.5 Oe at 300K.
- 8. (Currently Amended) The material composition of claim 2 having specific formula (Ba0.95Fe0.05)HfO3, wherein said saturation magnetization about 0.125:B/mol Fe at 300K, and the coercive fields about 20Oe at 300K. A ferromagnetic perovskite oxide having the formula (Ba $_{0.95}$ Fe $_{0.05}$ )HfO $_3$ , wherein the oxide has a saturation magnetization of about 0.125  $\mu_B$ /mol Fe at 300K, and a coercive field of about 20 Oe at 300K.
- 9. (Currently Amended) The material composition of claim 2 having specific formula (Ca0.95Fe0.05)HfO3, wherein said saturation magnetization about 0.12:B/mol Fe at 300K, and the coercive fields about 7Oe at 300K. A ferromagnetic perovskite oxide having the formula (Ca<sub>0.95</sub>Fe<sub>0.05</sub>)HfO<sub>3</sub>, wherein the oxide has a saturation magnetization of about 0.12  $\mu_B$ /mol Fe at 300K, and a coercive field of about 7 Oe at 300K.
- 10. (Currently Amended) A method for producing a ferromagnetic perovskite oxide ceramics, said method comprises the steps:
- (1) Preparing individual metal oxide according to the desired stoichiometry for amounts of:
- (a) metal oxides at least one non-magnetic element selected from group of Ca, Sr, Ba, Pb, Y, La, Gd; (b) metal oxides of at least one magnetic

element selected from group of Fe, Co, Ni, Mn, and V; (c) metal oxides at least one non-magnetic element selected from group of Ti, Zr, Hf, Sn, Mo, Ta, W, Nb, Al.

- (2) Mixing together said individual metal oxides (a), (b), and (c) to form a sigle single mixture.
- (3) Firing said mixture in argon or reducing atmosphere at temperature for a time sufficient to convert the said mixture to  $\underline{\mathbf{s}}$  single phase ferromagnetic perovskite oxides.

## 11.-14. (Cancelled Herein)

15. (Currently Amended) The material composition of claim 13 having specific formula La(Mo0.25Fe0.75)O3, wherein said magnetic Curie temperature is 940K, and the coercive fields about 238Oe at 300K. A ferromagnetic perovoskite oxide having the formula La(Mo<sub>0.25</sub>Fe<sub>0.75</sub>)O<sub>3</sub>, wherein the magnetic Curie temperature of the oxide is as high as 940 K, and wherein the oxide has a coercive field of about 238 Oe at 300K.

## 16.-18. (Cancelled Herein)

- 19. (New) A ferromagnetic perovskite oxide having the formula (Ba<sub>1-x</sub>Fe<sub>x</sub>)TiO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation magnetization of about 0.10  $\mu_B$ /mol Fe at 300K, and a coercive field of about 16 Oe at 300K.
- 20. (New) A ferromagnetic perovskite oxide having the formula (Ca<sub>1-x</sub>Fe<sub>x</sub>)TiO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation magnetization of about 0.11  $\mu_B$ /mol Fe at 300K, and a coercive field of about 12 Oe at 300K.
- 21. (New) A ferromagnetic perovskite oxide having the formula ( $Ba_{1-}xFe_x$ )ZrO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation

magnetization of about 0.11  $\mu_B/mol$  Fe at 300K, and a coercive field of about 25 Oe at 300K.

- 22. (New) A ferromagnetic perovskite oxide having the formula (Ca<sub>1-x</sub>Fe<sub>x</sub>)ZrO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation magnetization of about 0.12  $\mu_B$ /mol Fe at 300K, and a coercive field of about 4.5 Oe at 300K.
- 23. (New) A ferromagnetic perovskite oxide having the formula (Ba<sub>1-x</sub>Fe<sub>x</sub>)HfO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation magnetization of about 0.125  $\mu_B$ /mol Fe at 300K, and a coercive field of about 20 Oe at 300K.
- 24. (New) A ferromagnetic perovskite oxide having the formula (Ca<sub>1-x</sub>Fe<sub>x</sub>)HfO<sub>3</sub>, where x ranges from 0 to 0.15, and wherein the oxide has a saturation magnetization of about 0.12  $\mu_B$ /mol Fe at 300K, and a coercive field of about 7 Oe at 300K.